

FEB 23 2004

Substitute for Form 1449A/PTO (Modified)

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number 10/650,543
 Filing Date 08/28/2003
 First Named Inventor: Rajiv Ramaswami
 Group Art Unit 2633 2883
 Examiner Name Unassigned Healy
 Attorney Docket Number 3239P081D3

Sheet 1 of 9

U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Issue/ Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	CLASS SUB-CLASS
		Number Code ²	Kind (If known)				
BWH		3,651,392		Frisch, et al.	3/21/1972	318	561
BWH		4,365,863		Broussaud	12/28/1982	385	18X
BWH		4,369,523		Seki, et al.	1/18/1983	455	601
BWH		4,437,190		Rozenwaig, et al.	3/13/1984	455	600
BWH		4,470,154		Yano	9/4/1984	455	607
BWH		4,519,670		Spinner, et al.	5/28/1985	385	15X
BWH		4,530,566		Smith, et al.	7/23/1985	350	96.20
BWH		4,563,774		Gloge	1/7/1986	455	607
BWH		4,580,873		Levinson	4/8/1986	385	17X
BWH		4,612,670		Henderson	5/16/1986	455	607
BWH		4,634,239		Buhrer	10/6/1987	350	48X
BWH		4,797,879		Habbab, et al.	1/10/1989	370	3
BWH		4,817,014		Schneider, et al.	3/28/1989	364	728.03
BWH		4,843,382		Oda, et al.	6/27/1989	455	601X
BWH		4,856,863		Sampsel, et al.	8/15/1989	385	18X
BWH		4,859,012		Chon	8/22/1989	385	18X
BWH		4,886,335		Yanagawa, et al.	12/12/1989	385	18X
BWH		4,897,830		Hill, et al.	1/30/1990	370	4
BWH		4,903,225		Brost	2/20/1990	375	96
BWH		4,982,446		Lord, et al.	1/1/1991	455	606

FOREIGN PATENT DOCUMENTS

Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ^o
		Office ³	Number ⁴	Kind Code ⁵ (If known)				
BWH		WO	86/04205		PCT	07/17/86	H040	11/02
BWH		WO	86/05649		PCT	09/25/86	H040	11/02
BWH		WO	90/14734		PCT	11/29/90	H04N	7/22
BWH		WO	91/01603		PCT	02/07/91	H04J	14/00
BWH		WO	95/19689		PCT	07/20/95	H040	11/00
BWH		EP	0 674 457	A2	Fujitsu	09/27/95	385	24X
BWH		EP	0 721 275	A2	EPO	12/28/95	H04M	2/36

Examiner
Signature

B. Healy

Date Considered

9/15/04

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				First Named Inventor:	Rajiv Ramaswami
				Group Art Unit	2633 2883
				Examiner Name	Unassigned Healy
Sheet	2	of	9	Attorney Docket Number	3239P081D3

U.S. PATENT DOCUMENTS						CLASS	SUB-CLASS
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		Number Code ²	Kind (If known)				
BWA		4,984,238		Watanabe, et al.	1/8/1991	370	105.1
BWA		5,035,482		ten Berge, et al.	7/30/1991	350	96.20
BWA		5,037,173		Sampsel, et al.	8/6/1991	385	17
BWA		5,157,652		Walker	10/20/1992	370	17
BWA		5,216,729		Berger, et al.	6/1/1993	385	31
BWA		5,253,274		Janniello, et al.	10/12/1993	375	121
BWA		5,260,819		Hadifotou, et al.	11/9/1993	359	10
BWA		5,272,556		Faulkner, et al.	12/21/1993	359	125
BWA		5,299,044		Mosch, et al.	3/29/1994	359	110
BWA		5,349,550		Gage	9/20/1994	364	728.03
BWA		5,355,238		Kight, et al.	10/11/1994	384	135
BWA		5,359,683		Pan	10/25/1994	385	22
BWA		5,440,654		Lambert, Jr.	8/8/1995	385	17
BWA		5,477,364		Pearson	12/19/1995	385	17
BWA		5,485,300		Daley	1/16/1996	359	139
BWA		5,487,120		Choy, et al.	1/23/1996	385	24
BWA		5,488,862		Neukermans, et al.	2/6/1996	73	501.02
BWA		5,515,361		Li, et al.	5/7/1996	370	15
BWA		5,521,732		Nishio	5/28/1996	359	120
BWA		5,521,734		Frigo	5/28/1996	359	152

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BWA		EP	0 752 794	A2	EPO	01/08/97	H04G	11/00
BWA		EP	0 759 681	A2	EPO	02/26/97	385	17X
BWA		EP	0 809 384	A2	EPO	05/20/97	H04L	29/14
BWA		WO	97/24822		PCT	07/10/97	H04B	10/08
BWA		EP	0 857 000	A2	EPO	01/30/98	H04G	11/00
BWA		EP	0 647 457	A3	Fujitsu	05/13/98	H04G	11/00
BWA		WO	98/54863		PCT	05/27/98	H04J	14/02

Examiner Signature	B. Healy	Date Considered	9/15/04
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				Group Art Unit	2633 2 883
				Examiner Name	Unassigned- Healy
				Attorney Docket Number	3239P081D3
Sheet	3	of	9		

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		Number Code ²	Kind (If known)				
BWA		5,524,153		Laor	6/4/1996	385	16
BWA		5,535,293		Buchin	7/9/1996	385	27
BWA		5,539,328		Mirov, et al.	7/23/1996	326	30
BWA		5,570,371		Iga	10/29/1996	370	99
BWA		5,608,735		McCullough, et al.	3/4/1997	370	51.3
BWA		5,629,790		Neukermans, et al.	5/13/1997	359	198
BWA		5,629,919		Hayashi, et al.	5/13/1997	369	112
BWA		5,648,618		Neukermans, et al.	7/15/1997	73	862.08
BWA		5,666,487		Goodman, et al.	9/9/1997	395	20076
BWA		5,694,389		Seki, et al.	12/2/1997	375	326
BWA		5,699,463		Yang, et al.	12/16/1997	385	22
BWA		5,719,903		Hiben, et al.	2/17/1998	375	322
BWA		5,727,098		Jacobson	3/10/1998	385	31
BWA		5,729,527		Gerstel, et al.	3/17/1998	370	228
BWA		5,745,274		Fatehi, et al.	4/28/1998	359	187
BWA		5,774,604		McDonald	6/30/1998	385	18
BWA		5,781,537		Ramaswami, et al.	7/14/1998	370	254
BWA		5,793,746		Gerstel, et al.	8/11/1998	370	228
BWA		5,801,863		Fatehi, et al.	9/1/1998	359	124
BWA		5,825,877		Dan, et al.	10/20/1998	380	4

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		Office ³	Number ⁴	Kind Code ⁵ (If known)				
BWA		EP	0 849 906	A2	Fujitsu	06/24/98	H04Q	11/00
BWA		EP	0 898 440	A2	EPO	02/24/99	H04Q	11/00
BWA		GB	2347570	A	United Kingdom	03/03/99	H04J	14/02
BWA		WO	99/13656		PCT	03/18/99	H04J	14/02
BWA		WO	99/18751		PCT	04/15/99	H04Q	3/52
BWA		EP	0 910 138	A1	EPO	04/21/99	H07S	3/025
BWA		EP	0 932 069	A1	EPO	07/28/99	G02F	1/09

Examiner Signature	B. Healy	Date Considered	9/15/09
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				Application Number	10/650,543
				Filing Date	08/28/2003
				First Named Inventor:	Rajiv Ramaswami
				Group Art Unit	2633-2803
				Examiner Name	Unassigned <i>Healy</i>
Sheet	4	of	9	Attorney Docket Number	3239P081D3

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		Number Code ²	Kind (If known)				
<i>SWA</i>		5,825,949		Choy, et al.	10/20/1998	385	24
<i>SWA</i>		5,828,476		Bonebright, et al.	10/27/1998	359	152
<i>SWA</i>		5,864,643		Pan	1/26/1999	385	33
<i>SWA</i>		5,867,289		Gerstel, et al.	2/2/1999	359	110
<i>SWA</i>		5,892,606		Fatehi, et al.	4/6/1999	359	177
<i>SWA</i>		5,900,968		Srivastava, et al.	5/4/1999	359	341
<i>SWA</i>		5,903,687		Young, et al.	5/11/1999	385	17
<i>SWA</i>		5,915,063		Colbourne, et al.	6/22/1999	385	183
<i>SWA</i>		5,942,937		Bell	8/24/1999	829	303
<i>SWA</i>		5,960,132		Lin	9/28/1999	385	18
<i>SWA</i>		5,963,350		Hill	10/5/1999	385	27
<i>SWA</i>		5,970,201		Anthony, et al.	10/19/1999	385	140
<i>SWA</i>		5,978,113		Kight	11/2/1999	359	110
<i>SWA</i>		6,002,818		Fatehi, et al.	12/14/1999	385	17
<i>SWA</i>		6,002,818		Fatehi, et al.	12/14/1999	385	
<i>SWA</i>		6,005,993		MacDonald	12/21/1999	385	16
<i>SWA</i>		6,005,993		MacDonald	12/21/1999		
<i>SWA</i>		6,008,915		Zyskind	12/28/1999	359	110
<i>SWA</i>		6,009,220		Chan, et al.	12/28/1999	385	24
<i>SWA</i>		6,046,833		Sharma, et al.	4/4/2000	359	119

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<i>SWA</i>		WO	99/40738		Tol Johannes Jacobus Gerardus	08/12/99	385	24X
<i>SWA</i>		EP	0 938 244	A2	Fujitsu	08/25/99	385	24X
<i>SWA</i>		WO	00/13210		PCT	09/09/99	385	18X
<i>SWA</i>		WO	99/48323		PCT	09/23/99	385	18X
<i>SWA</i>		EP	0 953 854	A1	EPO	11/03/99	385	18X
<i>SWA</i>		WO	99/59272		PCT	11/18/99	385	18X
<i>SWA</i>		WO	99/63374		Laor	12/09/99	385	18X

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Sub		6,047,331		Medard, et al.	4/4/2000	709	239
Sub		6,069,924		Sudo, et al.	5/30/2000	375	330
Sub		6,072,612		Liou, et al.	6/6/2000	359	123
Sub		6,081,361		Adams, et al.	2/27/2000	359	188
Sub		6,097,858		Laor	8/1/2000	385	16
Sub		6,097,859		Solgaard, et al.	8/1/2000	385	17
Sub		6,108,311		Ramaswami, et al.	8/22/2000	370	228
Sub		6,130,876		Chaudhuri	10/10/2000	370	228
Sub		6,147,968		DeMoer, et al.	11/14/2000	370	225
Sub		6,148,124		Aksyuk, et al.	11/14/2000	385	24
Sub		6,160,821		Dolle, et al.	12/12/2000	370	509
Sub		6,188,810	B1	Baney	2/13/2001	385	11
Sub		6,188,814	B1	Bhalla	2/13/2001	385	15
Sub		6,192,172		Fatehi, et al.	2/20/2001	359	124
Sub		6,195,402	B1	Hiramatsu	2/27/2001	375	368
Sub		6,198,571	B1	Yank	3/6/2001	375	368
Sub		6,207,949	B1	Jackel	3/27/2001	250	227
Sub		6,222,954	B1	Riza	4/24/2001	385	18
Sub		6,252,689	B1	Sharp	6/26/2001	359	168
Sub		6,253,001	B1	Hoehn	6/26/2001	385	17

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Sub		WO	99/63531		Laor	12/09/99	385	18X
Sub		WO	99/66354		Laor	12/23/99	385	18X
Sub		WO	99/67666		Laor	12/29/99	385	18X
Sub		WO	00/04671		Laor	01/27/00	385	18X
Sub		WO	00/13210	A2	Xros, Inc.	03/09/00	385	18X
Sub		WO	00/13210	A3	Xros, Inc.	03/09/00	385	18X
Sub		WO	00/20899		PCT	04/13/00	385	18X

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OTHER ART – NO PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
Burt		A. HIMENO, R. NAGASE, T. ITO, K.KATO AND M. OKUNO; Photonic Inter-Module Connector Using 8x8 Optical Switches for Near-Future Electronic Switching Systems; IEICE Transactions on Communications; E77-B (1994) February, No. 2, Tokyo, JP			
Burt		LIN, L.Y. et al.; Micro-Electro-Mechanical Systems (MEMS) for WDM Optical-Crossconnect Networks, Milcom 1999; IEEE Military Communications Conf Proceedings; Atlantic City, NJ 10/31-11/3/99; pgs. 954-957.			
Burt		S. OKAMOTO, et al.; Optical Path Cross-Connect Node Architectures for Photonic Transport Network, Journal of Lightwave Technology, Vol. 14, No. 6, June 1996, pgs. 1410-1422.			
Quint		GUSTAFFSON, K. & HOK, B., A Batch-Processed Optical Scanner Proc. 12th Nordic Semiconductor Meeting, Jevnaker (Oslo: Center for Industrial Research) pp. 282-285, 1996.			
Burt		GUSTAFFSON, K. & HOK, B., Fiberoptic Switching and Multiplexing with a Micromechanical Scanning Mirror, Digest of Technical Papers, 4th Int. Conf. On Solid State Sensors and Actuators (Tokyo: Institute of Electrical Engineers of Japan) pp. 212-215, 1985.			
Burt		GUSTAFFSON, K. & HOK, B., A Silicon Light Modulator, Journal of Physics E. Scientific Instruments 21, pp. 608, 1998.			
Burt		LIN L.Y., et al., Free-Space Micromachined Optical-Switching Technologies and Architectures, OFC/100C '00, February 21-26, 1999.			
Burt		LAOR, H., et al., Performance of a 576x576 Optical Cross Connect, NFOEC-99.			
Burt		Types and Characteristics of SDH Network Protection Architectures; ITU-T Recommendation G.841 10/98.			
Burt		RAJIV RAMASWAMI & KUMAR SIVARAJAN, Optical Networks: A Practical Perspective, Morgan Kaufmann Pub. 1998, pp 152-161.			
Burt		RAJIV RAMASWAMI & KUMAR SIVARAJAN, Optical Networks: A Practical Perspective, Morgan Kaufmann Pub. 1998, pp 423-462.			
Burt		CHAD WHITE, The Photonic Switch Completes the Much-Vaunted All-Optical Network, Technology Investor, October 2000, pp 28-31.			

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Substitute for Form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/650,543
				Filing Date	08/28/2003
				First Named Inventor:	Rajiv Ramaswami
				Group Art Unit	2633
				Examiner Name	Unassigned
Sheet	9	of	9	Attorney Docket Number	3239P081D3
OTHER ART – NO PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
Bmt		BISCHOFF, et al., Operation and Maintenance for an All-Optical Transport Network, IEEE Communications, Magazine, pp 136-142, 11/1996.			
Bmt		LIN, et al., Free-Space Micromachined Optical Switches with Submillisecond Switching Time for Large-Scale Optical Crossconnects, pp 525-527, 04/1998.			
Bmt		KAUFMAN, et al., The Optical Internet, A New Network Architecture, pp 1-13.			
Bmt		SIMON, et al., All Optical Regeneration, IEEE, pp 53-54.			
Bmt		PETER WONG & MARK YIN, An Economic Analysis for Core Optical Transport Networks.			
Bmt		CRAIG LABOVITZ, ABHA AHUJA, FARNAM JAHANAIAAN, Experimental Study of Internet Stability and Backbone Failures, IEEE, pp 278-285, 1999.			

Examiner Signature		Date Considered	9/15/04
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